Grade 8 Elective Offerings 2019-2020

Reedy Creek Middle School
Center for the Digital Sciences Magnet Middle School

LAST NAME_____**FIRST NAME**_____ **STUDENT ID #**_____

Increase your chances of getting the electives you want by completing this simple form:

1) Indicate if you prefer to take the Health and Physical Education Course requirement for one semester or for the entire school year (consider scheduling space remaining for other electives).
2) Indicate 3 "P" Primary electives and 3 "A" Alternates from this list.
3) Review elective requests with parent/guardian and bring to school on your designated registration day.

Decisions regarding elective offerings are subject to change based on student interest & staff availability. Students whose teacher(s), assessments and/or individual plan indicate the need for extra support may be placed in an intervention class, such as Curriculum Assistance, ESL, math or reading intervention courses, instead of electives.

Request of Year-long or Semester-long		
Circle One: Year Semester	**Health & Physical Education**	This course is required for all students. Students have the option to request Year-long (2 semester long classes remain for electives) or semester-long (3 semester long classes remain open for electives). Students are still required to indicate 3 "P"s and 3 "A"s.

	CORE ELECTIVES
	Magnet Creative Writing
	Animal Science
	Animal Science (Advanced)* **(Prerequisite: Animal Science)**
	Olympics of Science and Math
	WORLD LANGUAGE ELECTIVES
	Spanish Beginning less than 1 Year
	Spanish 1 MS for HS Credit* (year-long course) (**Prerequisites: Spanish Beginning less than 1 Year *AND* Spanish Beginning 1 Year)**
	ARTS EDUCATION ELECTIVES
	Advanced Band* (year-long) (**Prerequisite: Beginning Band & Intermediate Band)** Instrument Preference: _____
	Visual Arts Exploratory
	Visual Composition
	Drawing
	Pottery / Sculpture* (**Prerequisite: Drawing)**
	Weaving Crafts
	Introduction to Theatre
	Dramatics* (**Prerequisite: Introduction to Theatre)**
	Advanced Dramatics* (**Prerequisite: Dramatics)**

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CAREER AND TECHNICAL EDUCATION ELECTIVES		
	Digital Literacy (combined with Keyboarding and Basic Word Processing)	
	Introduction to Office Productivity* (**Prerequisite: Digital Literacy)**	
	Computer Science Discoveries	
	Exploring Interpersonal Relationships & Childcare (combined with Nutrition and Wellness)	
	Exploring Apparel & Interior Design	
	Exploring Engineering & Design (combined with Invention and Innovation)	
	Design and Creativity* (**Prerequisite: Exploring Engineering & Design)**	
MAGNET ELECTIVES		
	Magnet Bits & Bytes	Through hands-on, on-your-feet kinesthetic activities and investigations, students will learn the foundations of computer science and computational thinking, including non-linear problem solving, algorithms, artificial intelligence, image types, how humans interface with computers, and more. This course will incorporate cooperative group work and project-based learning to enhance the learning experience.
	Magnet Emerging Technology	Technology has reached a point where it is changing almost moment by moment. At any given time, a new technology emerges. This course will immerse you in the study of your choice of emerging technologies, with your first task being the discovery of the definition of exactly what an emergent technology is! This elective will also provide you the basic knowledge to understand on what platform all technologies are built. More importantly, this class will help you develop skills that you will need to be able to keep up with a rapidly changing technological world!
	Magnet Mechatronics I	Students will learn the fundamentals of robot operation and programming. This will include the study of basic electrical concepts and components, sensors that provide data to robots, and programming techniques to control robot behavior.
	Magnet Mechatronics II*	Students will expand their knowledge of electronic circuits and devices. They will learn about the Arduino microcontroller, Raspberry Pi mini-computer, and how these devices are used in robots, smart devices, and other applications. Students will gain experience with different software that can be used with these devices. Students will also be introduced to the Internet of Things **(prerequisite: Magnet Mechatronics I)**
	Magnet Mechatronics III*	Students will explore ways to use the Arduino microcontroller and Raspberry Pi mini-computer in more complex projects. Students will be introduced to biomedical engineering and drone technology. **(prerequisite: Magnet Mechatronics II)**
	Magnet Peer Helpers	This hands-on course allows students to work with peers with special needs in a self-contained ID-Moderate and ID Severe class at RCMMS. Peer helpers will assist the students to make progress on their academic, social and vocational skills under the guidance and supervision of the classroom teaching professionals in the special education classroom and school environment. They will have the opportunities to use their creativity, problem solving skills, academic skills, communication skills, & interpersonal skills in real life situations to help others**. (Application Required)**

** Advanced course: Students must pass the previous course/prerequisite indicated before enrolling.*